10/820,421 Examiner Lee Fineman Ars on the cover sheet with the cooon REMAINS) CLOSED in this apport other appropriate communication GHTS. This application is subject to and MPEP 1308. filed 8/15/06.	lication. If not included
Examiner Lee Fineman ars on the cover sheet with the co OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	2872 prespondence address plication. If not included will be mailed in due course. THIS
ars on the cover sheet with the co OR REMAINS) CLOSED in this apport other appropriate communication GHTS. This application is subject to and MPEP 1308.	errespondence address lication. If not included will be mailed in due course. THIS
OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to and MPEP 1308.	lication. If not included will be mailed in due course. THIS
filed 8/15/06.	
2. The allowed claim(s) is/are <u>1-28</u> .	
der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No uments have been received in this r	
f this communication to file a reply of ENT of this application.	complying with the requirements
ted. Note the attached EXAMINER's reason(s) why the oath or declarat	
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	
Amendment / Comment or in the O	ffice action of
(4(c)) should be written on the drawin e header according to 37 CFR 1.121(d	gs in the front (not the back) of l).
IT OF BIOLOGICAL MATERIAL MOTE THE DEPOSIT OF BIOLOGICA	
 5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Date 7. ☒ Examiner's Amendm 8. ☒ Examiner's Stateme 9. ☐ Other 	(PTO-413), e
	der 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No uments have been received in this r f this communication to file a reply of this application. ted. Note the attached EXAMINER's reason(s) why the oath or declarate be submitted. on's Patent Drawing Review (PTO-S) Amendment / Comment or in the One of the declaration of the drawing header according to 37 CFR 1.121(c) it of BIOLOGICAL MATERIAL more than the DEPOSIT OF BIOLOGICAL MATERIAL of the DEPOSIT OF BIOLOGICAL of the DEPOSIT OF BIOLOGICAL MATERIAL of the DEPOSIT OF BIOLOGICAL OF THE DEPOSIT OF THE DEPO

Application/Control Number: 10/820,421

Art Unit: 2872

EXAMINER'S AMENDMENT

Page 2

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel R. McClure on 25 September 2006.

The application has been amended as follows:

Amend claim 12 as follows:

12. (Currently amended) The wire grid polarizer according to claim I, wherein the period is in a range of I0-[[250]]180nm.

Allowable Subject Matter

- 2. Claims 1-28 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 1-28 are allowable over the prior art for at least the reason that the prior art fails to teach and/or suggest a transmissive wire grid, full spectrum polarizer "wherein the period is not greater than 180nm" and "wherein the full spectrum polarizer has an extinction ratio of transmittance (T_{TM}/T_{TE}) of about 1E2-3.93E5 at wavelengths between 470-610nm, where T_{TM} is the transmittance of the TM polarized light and T_{TE} is the transmittance of the TE polarized light" as set forth in the claimed combination.

Application/Control Number: 10/820,421

Art Unit: 2872

Zhaoning Yu et al. (*CLEO '99*) disclose in fig. 1 a transmissive wire grid polarizer with double metal layers (see paragraphs 3 and 4, in so far as if only 54% of the TM light is reflected, some of the rest of the light must be transmitted and some must be absorbed), comprising: a transparent substrate (silica); an array of parallel and elongated dielectric protrusions (of PMMA) on the transparent substrate, wherein the dielectric protrusions have a period (190 nm) and a trench is located between adjacent dielectric layers; a first metal layer (of Au and Cr) having a first thickness (75 nm combined thickness of metal) in the trench; and a second metal layer (of Au and Cr) having a second thickness (75 nm combined thickness of metal) and a width (70 nm) on each dielectric protrusion, wherein the first and second metal layers are separated by a vertical distance of 125 nm [200 nm minus the 75 nm thickness of the first metal layer; it is clear from the present disclosure that the "vertical spacing" is measured between the top of the first metal layer and the bottom of the second metal layer], but does not have the period (190 nm) in a range of 10 ~ 180nm and an extinction ratio of transmittance (T_{TM}/T_{TE}) of about 1E2-3.93E5 at wavelengths between 470-610nm, where T_{TM} is the transmittance of the TM polarized light and

Page 3

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

T_{TE} is the transmittance of the TE polarized light as claimed.

Application/Control Number: 10/820,421 Page 4

Art Unit: 2872

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lee Fineman whose telephone number is (571) 272-2313. The examiner can normally be reached on Monday - Friday 7:30 - 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on (571) 272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LAF

25 September 2006

MARK A. ROBINSON PRIMARY EXAMINER